

**PRODUCTION OF GRANULE CONTAINING USEFUL INTESTINAL BACTERIUM**

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**Abstract**

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**PROBLEM TO BE SOLVED:** To obtain granules containing useful intestinal bacteria of high shape retention, which can stably maintain the high activity, when the granules are produced or while they are stored, and can sustain the high activity, even when they are orally given, by using a specific mixed solution as a binder on the granulation and/or as a coater after granulation.

**SOLUTION:** In the production of the objective granules, a mixture of (A) an ethanol solution containing shellac in a concentration of  $\geq 50\%$ , preferably of 50-60% and (B) propylene glycol and/or macrogol, or a mixture of the component A and (C) a liquid paraffin is used as a binder for granulation and/or a coating agent after granulation. As the useful intestinal bacteria, a powder of freeze-dried cells is preferably used. The volume ratio of A/B is (80-90) of A: (20-10) of B in volume, while the ratio of A/C is (58-60) of A: (42-40) of C. The amount of the mixture is preferably 100-350% based on the dry weight of the useful intestinal bacteria.

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